Notice of Allowability	Application No.		
	09/653,925		
	Examiner	Art Unit	
	Nitin Parekh	. 2811	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.31	(OR REMAINS) CLOSED in the commetter of the commetter appropriate commetter application is the commetter of the commetter application is the commetter of the c	n this application. If not inclu unication will be mailed in du	ded e course. <b>THIS</b>
1. This communication is responsive to 11-08-04.			
2. X The allowed claim(s) is/are 1, 3, 5-7, 15,17, 19-22, 25, 26	and 29-34.	· .	
3.   The drawings filed on 01 September 2000 are accepted b	y the Examiner.		
4. Acknowledgment is made of a claim for foreign priority u  a) All b) Some* c) None of the:  1. Certified copies of the priority documents hav  2. Certified copies of the priority documents hav  3. Copies of the certified copies of the priority do  International Bureau (PCT Rule 17.2(a)).  * Certified copies not received:  Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	e been received. e been received in Application ocuments have been receive of this communication to file	on No  In this national stage applic	
5. A SUBSTITUTE OATH OR DECLARATION must be subn INFORMAL PATENT APPLICATION (PTO-152) which give	nitted. Note the attached EX res reason(s) why the oath o	AMINER'S AMENDMENT or declaration is deficient.	NOTICE OF
<ol> <li>CORRECTED DRAWINGS ( as "replacement sheets") mu         <ul> <li>(a)  including changes required by the Notice of Draftsper</li> <li>1)  hereto or 2)  to Paper No./Mail Date</li> <li>(b)  including changes required by the attached Examiner Paper No./Mail Date</li> <li>Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in</li> </ul> </li> <li>DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT</li> </ol>	son's Patent Drawing Review  's Amendment / Comment on the header according to 37 Closit of BIOLOGICAL MAT	or in the Office action of the drawings in the front (not the FR 1.121(d). ERIAL must be submitted	
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/	6. ☐ Interview S Paper No.	nformal Patent Application (P Summary (PTO-413), /Mail Date s Amendment/Comment	TO-152)

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## **DETAILED ACTION**

## Allowable Subject Matter

1. Claims 1, 3, 5-7, 15, 17, 19-22, 25, 26 and 29-34 are allowed.

## Examiner's Amendment

- 2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.
  - A. Insert "wherein said air gap has a height in the range of between about 10-500 microns" at the end of claim 1, line 15.
  - B. Cancel claims 2 and 16.
  - C. Insert "wherein said air gap has a height in the range of between about 10-500 microns" at the end of claim 15, line 16.

Authorization for this examiner's amendment was given in a telephone interview with Desmund Gean on 01-14-05.

## Reasons for Allowance

3. The following is an examiner's statement of reasons for allowance:

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The references of record do not teach either singularly or in combination at least the limitations "a single-layer solid flexible dielectric circuit film having a thickness of 10,000 to 200,000 Angstroms, a top surface, a bottom surface and a routing conductor, the flexible circuit film having at least one outer landing formed on the top surface and at least one inner landing formed on the bottom surface such that the landings on the top and bottom surfaces are fully supported by the circuit film, wherein the outer landing is laterally offset from the inner landing and the two landings are connected via the routing conductor, which extends laterally within the single-layer solid flexible dielectric circuit film" and "wherein said air gap is has a height in the range of 10-500 microns" in an integrated circuit (IC) package having at least one raised interconnect between the IC die and the flexible circuit film having an air gap there-between.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nitin Parekh whose telephone number is 571-272-1663. The examiner can normally be reached on 09:00AM-05:30PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eddie Lee can be reached on 571-272-1732. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9318.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

NP

12-29-04

**NITIN PAREKH** 

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PRIMARY EXAMINER

**TECHNOLOGY CENTER 2800**